

# PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY

# PCT

**Translation**

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

Date of mailing  
(day/month/year)

Applicant's or agent's file reference

**PHM/CM/BR046580**

**FOR FURTHER ACTION**

See paragraph 2 below

International application No.

**PCT/FR2004/001093**

International filing date (day/month/year)

**06.05.2004**

Priority date (day/month/year)

**06.05.2003**

International Patent Classification (IPC) or both national classification and IPC

Applicant

**ETABLISSEMENTS ACTIS**

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/EP

Authorized officer

Facsimile No.

Telephone No.

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Box No. I

Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.  
☐ This opinion has been established on the basis of a translation from the original language into the following language \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
  - a. type of material  
☐ a sequence listing  
☐ table(s) related to the sequence listing
  - b. format of material  
☐ in written format  
☐ in computer readable form
  - c. time of filing/furnishing  
☐ contained in the international application as filed.  
☐ filed together with the international application in computer readable form.  
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

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Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
<b>1. Statement</b>			
Novelty (N)	Claims	1-5	YES
	Claims		NO
Inventive step (IS)	Claims	1-5	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-5	YES
	Claims		NO
<b>2. Citations and explanations:</b>			
<p>1 Reference is made to the following documents in the present notification:</p> <p>D1: FR 2 690 864 A (BLANC ROGER) 12 November 1993 (1993-11-12)</p> <p>D2: EP 0 388 674 A (ANZANI ONORIO; ANZANI LANFRANCO (IT)) 26 September 1990 (1990-09-26)</p> <p>D3: US 3 735 437 A (KROLIKOV B ET AL) 29 May 1973 (1973-05-29)</p> <p>D4: US 5 560 062 A (MARAZZI PAOLO ET AL) 1 October 1996 (1996-10-01)</p>			
<p>2 Document D1, which is considered to represent the most relevant prior art describes (the references between parentheses apply to this document) a head for a robot arm which is intended to perform a deflashing or carding [roughing] operation, which comprises a plate (2) for attachment to the arm of a robot (see claim 1), a shaft (5) which is mounted on the plate (2) in parallel therewith, a support (14) for a deflashing or carding [roughing] tool which is pivot-mounted around the shaft (5) and in an extension of the area where the plate (2) is fixed to the arm of the robot (see figure 3);</p>			

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from which the subject matter of independent claim 1 differs in that the head also comprises a jack which is mounted coaxially to the shaft connected to one end of a connecting rod the other end thereof being connected to the tool support in order to adjust the orientation thereof, and means for driving the tool.

- 2.1 The subject matter of claim 1 is therefore novel (PCT Article 33(2)).

The problem that the present invention is intended to solve can thus be considered to be that of moving the tool using the mechanism which is as simple as possible with optimum centring of the weight along the axis of the end of the robot arm.

- 2.2 The solution to this problem, as proposed in claim 1 of the present application, is considered to involve an inventive step (PCT Article 33(3)), for the following reasons:

in document D1, the double-acting jack (8) is fixed to the exterior face of the component (3), the rod (9) of the jack or ram (8) faces in the direction away from the plate, the second end of the connecting rod (12) is pivot-mounted on the clevis (6) by means of a pin (13);

document D2 describes a machine with a first head which comprises two pulleys and an abrasive belt, and a second head to beat parts of the shoe uniformly; D3 describes a machine the tool (37) of which is mounted at the end of a pivoting arm, which is pressed against the upper by a spring (44);

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D4 describes a machine in which a first tool is mounted at the end of a pivoting arm, which is moved by a double-acting ram or jack, which is not positioned coaxially to the arm pivot shaft.

The documents representing the prior art neither describe nor suggest the solution found in claim 1.

2.3 Claims 2-5 are dependent on claim 1 and thus also comply, as such, with the requirements of novelty and inventive step of the PCT.